

Refine Search

Search Results -

Term	Documents
STIRR\$4	0
STIRR	3871
STIRRA	14
STIRRAALE	1
STIRRABE	1
STIRRABIE	3
STIRRABL	4
STIRRABLC	3
STIRRABLE	2834
STIRRABLO	1
STIRRABLY	3
(L18 AND STIRR\$4).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

There are more results than shown above. [Click here to view the entire set.](#)

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
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 EPO Abstracts Database
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 IBM Technical Disclosure Bulletins

Search:

L20

Refine Search

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Search History

DATE: Monday, August 08, 2005 [Printable Copy](#) [Create Case](#)

Set Name **Query**
 side by side

Hit Count **Set Name**
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L20</u>	L18 and stirr\$4	8	<u>L20</u>
<u>L19</u>	L17 and (rotation\$3 adj torque)	0	<u>L19</u>
<u>L18</u>	L17 and rotation\$3	37	<u>L18</u>
<u>L17</u>	L15 and (image adj form\$4 adj device)	131	<u>L17</u>
<u>L16</u>	L15 and (image adj form\$4)	384	<u>L16</u>
<u>L15</u>	(toner adj recycle)	493	<u>L15</u>
<u>L14</u>	(toner or recycle)	332274	<u>L14</u>
<u>L13</u>	L8 and (recycle adj toner)	10	<u>L13</u>
<u>L12</u>	L11 and (image adj forming)	75	<u>L12</u>
<u>L11</u>	L8 and (recycle or toner)	75	<u>L11</u>
<u>L10</u>	L8 and (stirring or member)	73	<u>L10</u>
<u>L9</u>	L4 and (rotational adj torque)	0	<u>L9</u>
<u>L8</u>	L4 and (rotational or torque)	75	<u>L8</u>
<u>L7</u>	L5 and (rotational adj torque)	0	<u>L7</u>
<u>L6</u>	L5 and (torque or rotational)	0	<u>L6</u>
<u>L5</u>	L1 and ((toner adj cycle) or (cvcycle adj toner))	4	<u>L5</u>
<u>L4</u>	L1 and ((toner adj recycle) or (recvcycle adj toner))	350	<u>L4</u>
<u>L3</u>	L1 ((toner adj recycle) or (recycle adj toner))	0	<u>L3</u>
<u>L2</u>	L1 ((toner adj cycle) or (cycle adj toner))	20	<u>L2</u>
<u>L1</u>	Image adj forming	277062	<u>L1</u>

END OF SEARCH HISTORY

Set	Items	Description
S1	340201	IMAG?????()FORM???? OR ELECTRO()PHOTO? OR ELECTROPHOTO?
S2	152732	TONER? ?
S3	370909	RECYCL????? OR RE()CYCL?????
S4	33427	ROTAT?????() (TORQUE? OR FORCE? OR ENERGY OR STRENGTH)
S5	1608415	STIR???? OR MIX OR MIXING
S6	129403	(ROTAT???? OR ANGULAR?) (3N) SPEED
S7	2706	S2 AND S3
S8	1496	S2 (3N) S3
S9	1059	S1 AND S8
S10	1	S4 AND S9
S11	3	S8 AND S6 AND S5
S12	13	S8 AND (S4 OR S6)
S13	9	S12 NOT (S10 OR S11)
S14	9	RD (unique items)
S15	19	S7 AND (S4 OR S6)
S16	19	RD (unique items)
S17	6	S16 NOT (S12 OR S9)
S18	12	S6 AND S8
S19	12	RD (unique items)
S20	0	S19 NOT (S17 OR S10 OR S12)

? show files

File 2:INSPEC 1969-2005/May W5
(c) 2005 Institution of Electrical Engineers

File 6:NTIS 1964-2005/May W5
(c) 2005 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2005/May W5
(c) 2005 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2005/Jun W1
(c) 2005 Inst for Sci Info

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

File 99:Wilson Appl. Sci & Tech Abs 1983-2005/May
(c) 2005 The HW Wilson Co.

File 94:JICST-EPlus 1985-2005/Apr W3
(c) 2005 Japan Science and Tech Corp (JST)

File 92:IHS Intl.Stds.& Specs. 1999/Nov
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File 144:Pascal 1973-2005/May W5
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File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)
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(c) 2005 American Mathematical Society

File 95:TEME-Technology & Management 1989-2005/May W1
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File 62:SPIN(R) 1975-2005/Mar W4
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File 96:FLUIDEX 1972-2005/May
 (c) 2005 Elsevier Science Ltd.
File 98:General Sci Abs/Full-Text 1984-2004/Dec
 (c) 2005 The HW Wilson Co.
File 266:FEDRIP 2005/Jun
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Refine Search

Search Results -

Term	Documents
RECYCLE	115011
RECYCLES	10147
TONER	208457
TONERS	27342
(8 AND (RECYCLE ADJ TONER)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	10
(L8 AND (RECYCLE ADJ TONER)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	10

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Search:

L13

Refine Search

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Search History

DATE: Monday, August 08, 2005 [Printable Copy](#) [Create Case](#)

Set Name **Query**

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Hit Count**Set Name**

result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L13</u>	L8 and (recycle adj toner)	10	<u>L13</u>
<u>L12</u>	L11 and (image adj forming)	75	<u>L12</u>
<u>L11</u>	L8 and (recycle or toner)	75	<u>L11</u>
<u>L10</u>	L8 and (stirring or member)	73	<u>L10</u>
<u>L9</u>	L4 and (rotational adj torque)	0	<u>L9</u>
<u>L8</u>	L4 and (rotational or torque)	75	<u>L8</u>
<u>L7</u>	L5 and (rotational adj torque)	0	<u>L7</u>

<u>L6</u>	L5 and (torque or rotational)	0	<u>L6</u>
<u>L5</u>	L1 and ((toner adj cycle) or (cvcycle adj toner))	4	<u>L5</u>
<u>L4</u>	L1 and ((toner adj recycle) or (recvcycle adj toner))	350	<u>L4</u>
<u>L3</u>	L1 ((toner adj recycle) or (recycle adj toner))	0	<u>L3</u>
<u>L2</u>	L1 ((toner adj cycle) or (cycle adj toner))	20	<u>L2</u>
<u>L1</u>	Image adj forming	277062	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: JP 3585351 B2, JP 11065392 A Relevance Rank: 67

L5: Entry 4 of 4

File: DWPI

Nov 4, 2004

DERWENT-ACC-NO: 1999-236898

DERWENT-WEEK: 200472

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TITLE: Toner re-cycling device for electrophotographic image forming apparatus - sends out air sucked from inlet pipe using air pump, to connection unit through exhaust tube which transfers collected toner to connection unit

PATENT-ASSIGNEE: RICOH KK (RICO)

PRIORITY-DATA: 1997JP-0236526 (August 18, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 3585351 B2	November 4, 2004		022	G03G021/10
JP 11065392 A	March 5, 1999		015	G03G021/10

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 3585351B2	August 18, 1997	1997JP-0236526	
JP 3585351B2		JP 11065392	Previous Publ.
JP 11065392A	August 18, 1997	1997JP-0236526	

INT-CL (IPC): G03 G 15/08; G03 G 21/10

ABSTRACTED-PUB-NO: JP 11065392A

BASIC-ABSTRACT:

NOVELTY - Air is sucked from an inlet pipe (6) connected to hollow portion (4a) of a connection unit (4), using an air pump (3) arranged at cleaning unit side. The sucked air is sent through an exhaust tube (5) for transferring the collected toner to the connection unit. DETAILED DESCRIPTION - A cleaning unit (2) collects the toner remaining on an image carrier. The connection unit (4) arranged at the side of image development unit has the predetermined hollow portion (4a) which accommodates collected toner transferred from cleaning unit and supplies it to a toner supply unit (9) which supplies collected toner to the image development unit.

USE - For electrophotographic image forming apparatus.

ADVANTAGE - Prevents jamming of toner reclaimed from the image carrier. Enables to convey toner to image development unit and reuse it efficiently. Reduction in air pump capability due to pressure loss in air flow, is suppressed and air flow is utilized efficiently. DESCRIPTION OF DRAWING(S) - The figure shows the principal portion out-line block diagram of toner recycling device. (2) Cleaning unit; (3) Air pump; (4) Connection unit; (4a) Hollow portion; (5) Exhaust tube; (6) Inlet pipe; (9) Toner supply unit.

ABSTRACTED-PUB-NO: JP 11065392A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/8

DERWENT-CLASS: P84 S06
EPI-CODES: S06-A10C;

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Drawings
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☐ 2. Document ID: US 20030203304 A1 Relevance Rank: 40

L5: Entry 1 of 4

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030203304
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030203304 A1

TITLE: Image forming method

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Katagiri, Yoshimichi	Kawasaki		JP	
Nakamura, Yasushige	Kawasaki		JP	
Ebisu, Katsuji	Kawasaki		JP	
Horikoshi, Yuzo	Kawasaki		JP	
Kashikawa, Takahiro	Kawasaki		JP	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
FUJITSU LIMITED	Kawasaki		JP	03

APPL-NO: 10/ 259649 [PALM]
DATE FILED: September 30, 2002

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
JP	PAT.2002-097182	2002JP-PAT.2002-097182	March 29, 2002

INT-CL: [07] G03 G 13/20

US-CL-PUBLISHED: 430/124; 430/108.1, 430/111.4, 430/108.21, 399/336

US-CL-CURRENT: 430/124; 399/336, 430/108.1, 430/108.21, 430/111.4

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

The present invention provides an image forming method for obtaining excellent color fixed images with a smaller amount of light energy. This image forming method includes the steps of: forming a toner layer of a color toner containing at least a binder resin, a coloring agent, and an infrared absorbent, on a recording medium; and fixing the toner layer by flashlight emission, where the relationship among the PAS level S of the color toner that is obtained by integrating an infrared PAS spectrum obtained through PAS (photoacoustic spectroscopy) analysis in the range of 800 nm to 2000 nm, the melt viscosity .rho. of the color toner at a reference temperature, and the energy E of the flashlight, is expressed by the following relational expression:

$$1000.+-..rho./E.multidot.S.+-..5500$$

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Draw	Draw
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☐ 3. Document ID: US 4057426 A Relevance Rank: 36

L5: Entry 3 of 4

File: USPT

Nov 8, 1977

US-PAT-NO: 4057426

DOCUMENT-IDENTIFIER: US 4057426 A

TITLE: Magenta toner with a coated carrier

DATE-ISSUED: November 8, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mammino; Joseph	Penfield	NY		
Jossel; Franklin	Rochester	NY		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Xerox Corporation	Stamford	CT			02

APPL-NO: 05/ 617763 [PALM]

DATE FILED: September 29, 1975

INT-CL: [02] G03G 9/10, G03G 13/01

US-CL-ISSUED: 96/1SD; 96/1.2, 252/62.1P, 427/14, 427/22, 427/24

US-CL-CURRENT: 430/45; 430/120

FIELD-OF-SEARCH: 427/14, 427/18, 427/20, 427/22, 427/24, 96/1SD, 96/1.2, 96/1.4, 252/62.1P

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3533835</u>	October 1970	Hagenbach et al.	252/62.1 X
<u>3551337</u>	December 1970	Robinson	96/1.2 X
<u>3772013</u>	November 1973	Wells	96/1.2 X
<u>3775103</u>	November 1973	Sadamatsu et al.	252/62.1 X
<u>3804619</u>	April 1974	Mammino et al.	96/1.2
<u>3900587</u>	August 1975	Lenhard et al.	252/62.1 X

ART-UNIT: 162

PRIMARY-EXAMINER: Smith; Ronald H.

ASSISTANT-EXAMINER: Frenkel; Stuart D.

ATTY-AGENT-FIRM: Ralabate; J. J. Kolasch; D. C. Leipold; P. A.

ABSTRACT:

A novel magenta developer system is provided which employs a 2,9-dimethylquinacridone pigment and a resin toner in combination with a carrier coated with resin containing copper tetra-4-(octadecylsulfonomido) phthalocyanine. Thus, a magenta developer is provided for the first time which is capable of employing a coated conventional carrier, thereby simplifying the color electrophotographic process. Color electrophotographic process employing this developer are also disclosed.

14 Claims, 3 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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☐ 4. Document ID: US 5406313 A Relevance Rank: 35

L5: Entry 2 of 4

File: USPT

Apr 11, 1995

US-PAT-NO: 5406313

DOCUMENT-IDENTIFIER: US 5406313 A

TITLE: Color image forming apparatus and method

DATE-ISSUED: April 11, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
------	------	-------	----------	---------

Noami; Tsuneo	Kanagawa	JP
Maruyama; Kazuo	Kanagawa	JP
Sumikawa; Takeshi	Kanagawa	JP
Furuya; Nobumasa	Kanagawa	JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Fuji Xerox Co., Ltd.	Tokyo			JP	03

APPL-NO: 08/ 080059 [PALM]

DATE FILED: June 23, 1993

PARENT-CASE:

This application is a continuation of application Ser. No. 07/646,273, filed Jan. 28, 1991, now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	2-16174	January 29, 1990

INT-CL: [06] G03 G 15/01

US-CL-ISSUED: 347/115; 355/327, 430/45

US-CL-CURRENT: 347/115; 399/143, 399/232, 430/45

FIELD-OF-SEARCH: 355/210, 355/268, 355/326R, 355/327, 346/157, 346/160, 346/108, 346/76L, 430/42, 430/44, 430/45

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4803518</u>	February 1989	Haneda et al.	355/326
<u>4831408</u>	May 1989	Yoshikawa et al.	346/157
<u>4833505</u>	May 1989	Furuya et al.	355/326
<u>4937629</u>	June 1990	Marayama et al.	355/265
<u>4937630</u>	June 1990	Yoshikawa et al.	355/326 X

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
58-57139	September 1981	JP	
60-247650	May 1984	JP	
63-142363	December 1986	JP	
1-287581	June 1988	JP	
2-19875	July 1988	JP	

ART-UNIT: 215

PRIMARY-EXAMINER: Beatty; Robert B.

ATTY-AGENT-FIRM: Finnegan, Henderson, Farabow, Garrett & Dunner

ABSTRACT:

A first negative or positive latent electrostatic image is formed on a latent image bearing body with a first writing device, and developed with a monochromatic toner. A second latent image of the type different than the first latent image is formed by a second writing device after setting the background voltage of the second image to have an absolute value larger than the first image, and then developed with one or two color toners selected from three color toners of respective multi-color developing units. A plurality of multi-color toner images may be formed in respective rotation cycles of the latent image bearing body. A monochromatic toner image may be formed in the same rotation cycle as one of the multi-color toner images. Finally, a plurality of toner images thus produced are transferred onto a recording sheet at once after polarities of the plurality of toner images have been arranged into the same polarity.

8 Claims, 14 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	AMC	Draw D.
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
TONER	208457
TONERS	27342
CYCLE	1171931
CYCLES	480602
CVYCLE	0
CVYCLES	0
(1 AND ((CVYCLE ADJ TONER) OR (TONER ADJ CYCLE))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L1 AND ((TONER ADJ CYCLE) OR (CVYCLE ADJ TONER))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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